

MATERIAL SAFETY DATA SHEET  
Copper(II) chloride, anhydrous

### Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Copper(II) chloride, anhydrous
<b>Catalog Numbers:</b>	20653-0000, 20653-0010, 20653-2500
<b>Synonyms:</b>	Cupric chloride
<b>Company Identification:</b>	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium
<b>Company Identification: (USA)</b>	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
<b>For information in the US, call:</b>	800-ACROS-01
<b>For information in Europe, call:</b>	+32 14 57 52 11
<b>Emergency Number, Europe:</b>	+32 14 57 52 99
<b>Emergency Number US:</b>	201-796-7100
<b>CHEMTREC Phone Number, US:</b>	800-424-9300
<b>CHEMTREC Phone Number, Europe:</b>	703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7447-39-4	Copper(II) chloride, anhydrous	99%	231-210-2

**Hazard Symbols:** T N



**Risk Phrases:** 25 36/37/38 50/53

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Toxic if swallowed. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

#### Potential Health Effects

<b>Eye:</b>	Causes eye irritation.
<b>Skin:</b>	Causes skin irritation. May be harmful if absorbed through the skin.
<b>Ingestion:</b>	May cause irritation of the digestive tract. Toxic if swallowed.
<b>Inhalation:</b>	Causes respiratory tract irritation. May be harmful if inhaled.
<b>Chronic:</b>	

### Section 4 - First Aid Measures

<b>Eyes:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
<b>Skin:</b>	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion:</b>	Get medical aid immediately. Wash mouth out with water.
<b>Inhalation:</b>	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Notes to Physician:</b>	Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.
<b>Extinguishing Media:</b>	Use extinguishing media most appropriate for the surrounding fire.

### Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Do not let this chemical enter the environment.

### Section 7 - Handling and Storage

<b>Handling:</b>	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.
<b>Storage:</b>	Store in a cool, dry place. Store in a tightly closed container. Store under argon.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

#### Exposure Limits

CAS# 7447-39-4:

Russia: 0.5 mg/m<sup>3</sup> TWA (aerosol, as Cu)

#### Personal Protective Equipment

<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Color:** brown - fine

**Odor:** odorless

**pH:** 3 (50 g/L aq.sol (20°C))

**Vapor Pressure:** Not available

**Viscosity:** Not available

**Boiling Point:** 993 deg C @760mmHg ( 1,819.40°F)

**Freezing/Melting Point:** 498 deg C ( 928.40°F)

**Autoignition Temperature:** Not available

**Flash Point:** Not available

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:**

**Solubility in water:** 620 g/l (20°C)

**Specific Gravity/Density:** Not available.

**Molecular Formula:** Cl<sub>2</sub>Cu

**Molecular Weight:** 134.45

### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Hygroscopic: absorbs moisture or water from the air.
<b>Conditions to Avoid:</b>	Incompatible materials, exposure to moist air or water.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents, alkali metals.
<b>Hazardous Decomposition Products</b>	Hydrogen chloride.
<b>Hazardous Polymerization</b>	Has not been reported.

### Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 7447-39-4: GL7000000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 7447-39-4:</b> Oral, mouse: LD50 = 233 mg/kg; Oral, rat: LD50 = 584 mg/kg; Oral, rat: LD50 = 140 mg/kg; . Other:
<b>Carcinogenicity:</b>	Copper(II) chloride, anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

### Section 12 - Ecological Information

<b>Ecotoxicity:</b>	Daphnia: Daphnia: EC50 = 0.04 mg/l; 48H; . Fish: Carp: LC50 = 0.120 -0.130 mg/l; 96H; . Fish: Bluegill/Sunfish: LC50 = 0.9 mg/l; 96H; . Fish: Rainbow trout: LC50 = 0.08 mg/l; 96H; . Algae: EC50 = 0.12 mg/l; 96H; . Algae: EC50 = 0.2 mg/l; 96H; .
<b>Other:</b>	Do not empty into drains. Not readily biodegradable.

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	COPPER CHLORIDE	COPPER CHLORIDE	COPPER CHLORIDE
<b>Hazard Class:</b>	8	8	8

<b>UN Number:</b>	2802	2802	2802
<b>Packing Group:</b>	III	III	III

USA RQ: CAS# 7447-39-4: 10 lb final RQ; 4.54 kg final RQ

Severe Marine Pollutant

**Section 15 - Regulatory Information**

**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 25 Toxic if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 Do not empty into drains.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 57 Use appropriate containment to avoid environmental contamination.

WGK (Water Danger/Protection)

CAS# 7447-39-4: 2

Canada

CAS# 7447-39-4 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 7447-39-4 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:** 7/16/1996

**Revision #2 Date** 8/23/2007

**Revisions were made in Sections:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,

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